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FORM PTO-1390
(REV. 7-2005)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER
10271-148-999

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

INTERNATIONAL APPLICATION NO.
PCT/US2004/034693

INTERNATIONAL FILING DATE
October 15, 2004

U.S. APPLICATION NO. (if known, see 37CFR 1.5)
107584364
To be assigned

PRIORITY DATE CLAIMED
December 24, 2003

TITLE OF INVENTION
EPhA2 VACCINES

APPLICANT(S) FOR DO/EO/US
MedImmune, Inc.

Applicant herewith submits to the United States Designated/ Elected Office (DO/EO/US) the following items and other information:

1. This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. The U.S. has been elected (Article 31).
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. is attached hereto (required only if not communicated by the International Bureau).
 - b. has been communicated by the International Bureau.
 - c. is not required, as the application was filed in the United States Receiving Office (RO/US).
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. is attached hereto.
 - b. has been previously submitted under 35 U.S.C. 154(d)(4).
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. are attached hereto (required only if not communicated by the International Bureau).
 - b. have been communicated by the International Bureau.
 - c. have not been made; however, the time limit for making such amendments has NOT expired.
 - d. have not been made and will not be made.
8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. An (unexecuted) oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 20. below concern document(s) or information included:

11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. A preliminary amendment.
14. An Application Data Sheet under 37 CFR 1.76.
15. A substitute specification.
16. A power of attorney and/or change of address letter.
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13^{ter} 2 and 37 CFR 1.821- 1.825.
18. A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
20. Other items or information: copy of WO 2005/067460 A2 dated July 28, 2005, which is the publication of PCT/US2004/0034693; Sequence Listing in paper form; Transmittal of Sequence Listing

This collection of information is required by 37 CFR 1.414 and 1.49.1-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

10271-148-999 107584364 10/23/2006

US APPLICATION NO. (If known, see 37 CFR 1.57) To be assigned 107584364		INTERNATIONAL APPLICATION NO. PCT/US2004/034693	ATTORNEY'S DOCKET NUMBER 10271-148-999
<p>The following fees are submitted:</p> <p>21. <input checked="" type="checkbox"/> Basic national fee \$300.00</p> <p>22. <input checked="" type="checkbox"/> Examination fee..... Was the Written Opinion prepared by the ISA/USPTO or did the International Preliminary Examination Report prepared by the USPTO indicate that all filed claims in this U.S. application satisfy provisions of PCT Article 33(1)-(4) (i.e., novelty, inventive step and industrial capability)? <input type="checkbox"/> i) Yes (\$0.00)..... <input checked="" type="checkbox"/> ii) No (\$200.00)..... \$200.00</p> <p>23. <input checked="" type="checkbox"/> Search fee Did the Written Opinion of the ISA/USPTO or the International preliminary examination report prepared by the USPTO indicate that all claims satisfy provisions of PCT Article 33(1)-(4) (i.e., novelty, inventive step and industrial capability)? <input type="checkbox"/> i) Yes (\$0.00)..... ii) If no: <input checked="" type="checkbox"/> (a) A Search Fee has been paid on the international application to the USPTO as an International Search Authority. (\$100.00) <input type="checkbox"/> (b) An International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB. (\$400.00) <input type="checkbox"/> (c) All other situations (\$500.00)..... \$100.00</p>			
TOTAL OF CALCULATIONS =			
\$ \$600.00			
<input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing of computer programs listing filed in electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.			
Total Sheets 241 -100		Extra Sheets 141 /50	Number of each additional 50 or fraction thereof (round up to a whole number). 3
			RATE x 250.00
			\$750.00
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).			
CLAIMS Total Claims		NUMBER FILED 27 - 20	NUMBER EXTRA 7
			RATE X x \$50.00
Independent Claims		3 - 3	0
			x \$200.00 = \$0.00
<input checked="" type="checkbox"/> MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ 360.00	
TOTAL OF ABOVE CALCULATIONS=			
= \$2190.00			
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 50%.			
SUBTOTAL =			
= \$2190.00			
Surcharge of \$130.00 for furnishing the English Translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			
TOTAL NATIONAL FEE			
= \$2190.00			
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). 0 x \$40.00 per property			
TOTAL FEES ENCLOSED			
= \$2190.00			
Amount to be refunded:			
charged: \$2440.00			
a. <input type="checkbox"/> A check in the amount of \$ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> This is an estimate of the fees due. Please charge Deposit Account No. 50-3013 to cover the required fees. A copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-3013. A copy of this sheet is enclosed.			
Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.			
24. <input checked="" type="checkbox"/> All correspondence for this application should be mailed to		JONES DAY	20583. <i>By: Jennifer J. Chheda</i> <i>Reg. No. 46,617</i>
25. <input checked="" type="checkbox"/> All telephone inquiries should be made to 212.901.9028.			
Margaret B. Brivanlou		40,922	June 23, 2006
NAME Margaret B Brivanlou SIGNATURE		REG. NO.	DATE

Please type a plus (+) inside this box +

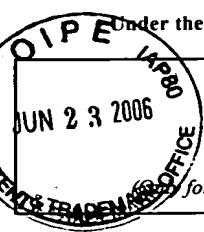
6-26-0401584364 PCT

IAP6 Rec'd PCT/PTO 23 JUN 2006

PTO/SB/05 (03-01)

Approved for use through 7/31/06. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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UTILITY
PATENT APPLICATION
TRANSMITTAL

for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	10271-148-999	Total Pages	255
First Named Inventor or Application Identifier			
Michael S. Kinch			
Express Mail Label No.	EV452776515US		

APPLICATION ELEMENTS

See MPEP chapters 600 concerning utility patent application contents.

1. <input checked="" type="checkbox"/> Fee Transmittal Form (Submit an original, and a duplicate for fee processing)	[Total Sheets 2]	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
2. <input type="checkbox"/> Applicant claims Small Entity status, see 37 C.F.R. § 1.27		8. <input checked="" type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
3. <input checked="" type="checkbox"/> Specification (preferred arrangement set forth below, MPEP 1503.01)	[Total Pages 143]	a. <input checked="" type="checkbox"/> Computer Readable Form (CRF)
- Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R&D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description of the Invention (including drawings, if filed) - Claim(s) - Abstract of the Disclosure		b. <input type="checkbox"/> Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input checked="" type="checkbox"/> paper
4. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113)	[Total Sheets 30]	c. <input checked="" type="checkbox"/> Statement verifying identity of above copies
5. <input checked="" type="checkbox"/> Oath or Declaration (unexecuted)	[Total Sheets 2]	
a. <input type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 18 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).		9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))
6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	[Total Sheets]	10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <i>(when there is an assignee)</i> <input type="checkbox"/> Power of Attorney
11. <input type="checkbox"/> English Translation Document (if applicable) 12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 13. <input checked="" type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> Certified Copy of Priority Document(s) 15. <input type="checkbox"/> (if foreign priority is claimed) 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(i). Applicant must attach form PTO/SB/35 or its equivalent 17. <input type="checkbox"/> Other:		

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) | of prior application No.: filed

Prior application information: Examiner:

Group Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

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